Exercise 1 Consider the functions f and g defined by the table of values below.

x	f(x)
-3	2
-2	4
-1	0
0	2
1	2
2	3
3	-2

x	g(x)
-3	-3
-2	-1
-1	-3
0	0
1	3
2	1
3	2

Use the pair of functions f and g to find the following values, if they exist. If the value does not exist, enter DNE.

(a)
$$(f+g)(-3) = \boxed{-1}$$

(b)
$$(f-g)(2) = \boxed{2}$$

(c)
$$(f \cdot g)(-1) = \boxed{0}$$

(d)
$$(g-f)(1) = \boxed{1}$$

(e)
$$\left(\frac{f}{g}\right)(0) = \boxed{DNE}$$

$$(f) \left(\frac{f}{g}\right)(3) = \boxed{-1}$$

(g)
$$\left(\frac{g}{f}\right)(-1) = \boxed{DNE}$$

(h)
$$(g \cdot f)(-2) = \boxed{-4}$$